



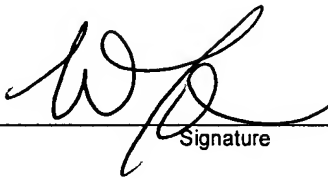
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PRE-APPEAL BRIEF REQUEST FOR REVIEW		Docket Number (Optional) SON-2903	
	Application Number 10/541,092-Conf. #4260	Filed June 29, 2005	
	First Named Inventor Noboru Toyozawa et al.		
	Art Unit 2629	Examiner Y. Chow	
<p>Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.</p> <p>This request is being filed with a notice of appeal.</p> <p>The review is requested for the reason(s) stated on the attached sheet(s). Note: No more than five (5) pages may be provided.</p> <p>I am the</p> <p><input type="checkbox"/> applicant /inventor.</p> <p><input type="checkbox"/> assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)</p> <p><input checked="" type="checkbox"/> attorney or agent of record. Registration number <u>24,104/40,290</u></p> <p><input type="checkbox"/> attorney or agent acting under 37 CFR 1.34. Registration number if acting under 37 CFR 1.34. _____</p> <p> _____ Signature Ronald P. Kananen/Christopher M. Tobin Typed or printed name</p> <p>_____ (202) 955-3750 Telephone number _____ April 22, 2009 Date</p> <p>NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.</p> <p><input checked="" type="checkbox"/> *Total of <u>1</u> forms are submitted.</p>			



Docket No.: SON-2903
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Noboru Toyozawa et al.

Application No.: 10/541,092

Confirmation No.: 4260

Filed: June 29, 2005

Art Unit: 2629

For: DISPLAY DEVICE

Examiner: Yuk Chow

REQUEST FOR PRE-APPEAL BRIEF PANEL REVIEW OF REJECTION

MS AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Madam:

This is in full and timely response to the Office Action dated January 28, 2009.

Paragraph 2 indicates a rejection of claims 17, 18 and 23-25 under 35 U.S.C. §102 as allegedly being anticipated by U.S. Patent No. 6,56,7066 (Hashimoto).

Paragraph 4 indicates a rejection of claims 19-22 under 35 U.S.C. §103 as allegedly being unpatentable over U.S. Patent No. 6,56,7066 (Hashimoto) in view of U.S. Patent No. 6,313,819 (Maekawa).

Paragraph 5 indicates a rejection of claim 26 under 35 U.S.C. §103 as allegedly being unpatentable over U.S. Patent No. 6,56,7066 (Hashimoto) in view of U.S. Patent No. 6,091,391 (Ling).

Claims 17-26 - Claims 18-26 are dependent upon claim 17.

Claim 17 is drawn to a display device comprising:

a matrix of pixels, a pixel of said matrix of pixels having an electro-optic material between a pixel electrode and a common electrode;

a common driver having an offset circuit, a common voltage generated by said common driver being applied to said common electrode,

wherein said offset circuit is charged to an offset voltage at a time of a rising edge of a power supply voltage, said offset voltage adjusting a level of said common voltage.

Hashimoto - Hashimoto arguably discloses gray shade voltages VX0-VX9 (Hashimoto at Figures 1, 2, 9, 10).

However, Hashimoto *fails* to disclose, teach, or suggest that the output offset control circuit 14 is charged to an offset voltage at a time of a rising edge of any of the gray shade voltages VX0-VX9.

Hashimoto arguably discloses supply voltage VDD (Hashimoto at Figure 5).

However, Hashimoto *fails* to disclose, teach, or suggest that the output offset control circuit 14 is charged to an offset voltage at a time of a rising edge of supply voltage VDD.

Instead, the Office Action contends that Hashimoto discloses a device wherein said offset circuit is charged to an offset voltage at a time of a rising edge of a power supply voltage (Fig. 5, M1 which is connected to VDD and Fig. 6, offset circuit is charged when M1 is on), said offset voltage adjusting a level of said common voltage (Fig. 6(ΔV)) (Office Action at page 2).

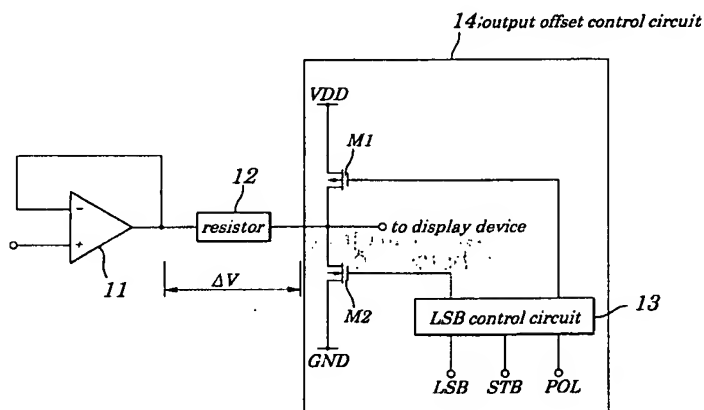
In response, Hashimoto arguably discloses at column 7, lines 7-23, that:

FIG. 5 is a schematic block diagram showing first and second output circuits shown in FIG. 1. Each of the output circuits is provided with an operational amplifier 11 used to amplify an output signal fed from the gray shade voltage selecting circuit and

to convert its impedance. Between the operational amplifier 11 and an output terminal connected to the display device is connected a resistor 12 including an analog switch or the like. Between the resistor 12 and the output terminal are connected transistors M1 and M2 drains of which are connected to each other. A source of the transistor M1 is connected to a terminal of supply voltage VDD and a source of the transistor M2 is connected to a ground GND. Gates of the transistors M1 and M2 are connected to an LSB control circuit 13. To the LSB control circuit 13 are inputted the least significant bit (1 bit) of the digital image data and polarity signal POL and latch signal STB. That is, an output offset control circuit 14 is composed of transistors M1 and M2 and of the LSB control circuit 13.

Figure 5 of Hashimoto is provided hereinbelow.

FIG.5



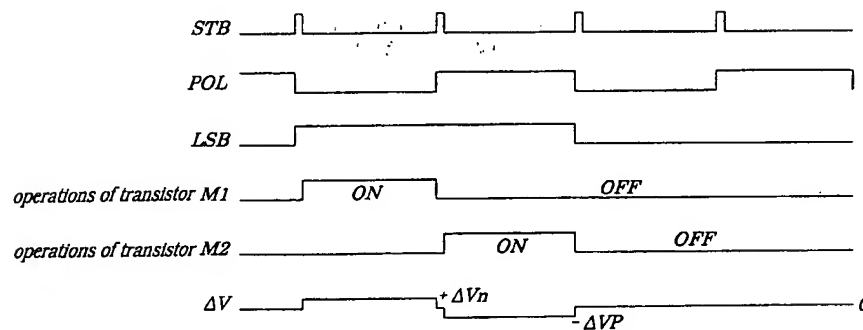
Furthermore, Hashimoto arguably discloses at column 8, lines 13-21, that:

FIG. 6 is a time chart showing operations of the first output circuit 9 according to the first embodiment. In the first output circuit 9, if the least significant bit LSB is 0 (low), both of the transistors M1 and M2 are turned OFF regardless of the polarity signal POL. At this point, the voltage drop in the resistor 12 including analog switches or the like does not occur because currents do not flow constantly, an output

voltage supplied from the operational amplifier 11, as it is, is applied to the display device from the output terminal.

Figure 6 of Hashimoto is provided hereinbelow.

FIG. 6



Here, the transistors M1 and M2 of Hashimoto are switched ON or OFF by the LSB control circuit 13 based on the least significant bit of the digital image data (Hashimoto at column 7, lines 29-31).

In this regard, the Office Action fails to show that the least significant bit of the digital image data of Hashimoto and a power supply voltage are one in the same, especially when Figure 5 of Hashimoto appears to depict the least significant bit-LSB as being something other than supply voltage VDD.

Likewise, Figure 6 of Hashimoto fails to show the switching of either transistor M1 or transistor M2 on a rising edge of any signal.

- **Thus, Hashimoto fails to disclose, teach, or suggest a device wherein said offset circuit is charged to an offset voltage at a time of a rising edge of a power supply voltage, said offset voltage adjusting a level of said common voltage.**

Maekawa - The Office Action cites Maekawa for the features that are deficient from within Hashimoto.

However, the Office Action fails to show within Maekawa the presence of a rising edge of a power supply voltage VCC.

- *Thus, the Office Action fails to show that Maekawa discloses a device wherein said offset circuit is charged to an offset voltage at a time of a rising edge of a power supply voltage, said offset voltage adjusting a level of said common voltage.*

Ling - The Office Action cites Ling for the features that are deficient from within Hashimoto.

However, no timing diagram can be found within Ling.

- *Thus, Ling fails to disclose, teach, or suggest a device wherein said offset circuit is charged to an offset voltage at a time of a rising edge of a power supply voltage, said offset voltage adjusting a level of said common voltage.*

Withdrawal of these rejections and allowance of the claims is respectfully requested.

Dated: April 22, 2009

Respectfully submitted,

By  4/22/09

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